Title (en)

METHOD OF REMOVING CHLORINE FROM EXHAUST GASES

Publication

EP 0411162 B1 19930127 (DE)

Application

EP 89112241 A 19890705

Priority

EP 89112241 A 19890705

Abstract (en)

[origin: US5073355A] A process for the removal of chlorine from off-gases which continuously or sporadically contain small amounts of chlorine by scrubbing the off-gases with a ferrous chloride-containing aqueous solution in a scrubbing system. The solution used is obtained by dissolving a solids mixture which results from the chlorination of a titaniferous and ferriferous feedstock material and which contains essentially ferrous chloride. This solution is used in particular for the scrubbing of off-gases formed in the production of titanium dioxide by the chlorination of titaniferous and ferriferous feedstock material, thus generating titanium tetrachloride and ferrous chloride, and by the reaction of the titanium tetrachloride with oxygen-containing gases. It is preferably the solids mixture separated in this process from the chlorination mixture in a condensation step that is dissolved in the process of the invention, and at least part of the resulting solution is used for the scrubbing of the off-gases. Known devices can be used for scrubbing, e.g., packed columns.

IPC 1-7

B01D 53/34; C22B 34/12

IPC 8 full level

B01D 53/68 (2006.01); **C22B 34/12** (2006.01)

CPC (source: EP US)

B01D 53/68 (2013.01 - EP US); **C22B 34/12** (2013.01 - EP US)

Cited by

DE102008035202B3

Designated contracting state (EPC)

BE DE ES FR GB IT NL

DOCDB simple family (publication)

EP 0411162 A1 19910206; **EP 0411162 B1 19930127**; CA 2013624 A1 19910105; CA 2013624 C 19980224; DE 58903414 D1 19930311; ES 2037915 T3 19930701; US 5073355 A 19911217

DOCDB simple family (application)

EP 89112241 A 19890705; CA 2013624 A 19900402; DE 58903414 T 19890705; ES 89112241 T 19890705; US 54866990 A 19900705